WBLE-SL ▶ UECM1404-202301-EZZ ▶ Quizzes ▶ 202301UECM14040E1b ▶ Review of preview Update this Qui								
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202301UECM14040E1b								
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Review of preview								
	Monday, 6 February 2023, 12:56 PM Monday, 6 February 2023, 12:56 PM							
Time taken								
Grade	O out of a maximum of 10 (O%)							
1 ☑ Marks: 1	You are given $\delta_t = 2/(1+t)$. A payment of 380 at the end of 5 years and 760 at the end of 10 years has the same present value as a payment of 280 at the end of 4 years and X at the end of 9 years. Calculus X.							
	Answer:							
	Make comment or override grade Incorrect Correct answer: 563.654729 Marks for this submission: 0/1.							
2 🗑 Marks: 1	 You are given: δ_t = 1/(4+t); and the total interest earned during the first n years on an investment of 1 at time t = 0 is 2.2. Determine n							
	Answer:							
	Make comment or override grade							
	Incorrect Correct answer: 8.8 Marks for this submission: 0/1.							
3 	It takes 13.872 years for an initial investment to double at a force of interest δ. How long will it take for an initial investment to triple at a nominal rate of interest numerically equal to δ and convertible twice a year?							
	Answer:							
	Make comment or override grade Incorrect Correct answer: 22.245769 Marks for this submission: 0/1.							
4 👺 Marks: 1	You are given two loans, with each loan to be repaid by a single payments in the future. Each payment include both principal and interest. The first loan is repaid by a 3400 pyament at the end of 4 years. The interest is accrued at 12% per annum compounded semiannually. The second loan is repaid by a 4400 pyament at the end of 5 years. The interest is accrued at 10% per annum compounded semiannually. These two loans are to be consolidated. The consolidated loan is to be repaid by two equal instalments of X, with interest 14% per annum compounded semiannually. The first payment is due immediately and the second payment is due one year from now. Calculate X.							

Answer:		· · · · · · · · · · · · · · · · · · ·				
Make comment or overr Incorrect Correct answer: 2580.5 Marks for this su	1					
5 ☑ Marks: 1	At a certain interest rate the present value of the following two payment patterns are equal: • 229 at the end of 9 years plus 565 at the end of 18 years. • 654.53 at the end of 9 years. At the same interest rate, 114.0 invested now plus 339.0 invested at the end of 9 years will accumulate to P at the end of 18 years. Calculate P.					
	Answer:					
	Make comment or override grad Incorrect Correct answer: 651.083971 Marks for this submiss					
	rialks for this subinis	561. 0/1.				
6 ☑ Marks: 1	You invest 5100 today and plan equal 8%, find n	to invest another 2550 two years from today. You plan to withdraw 7,650 in n years and another 7,650 in n+5 years, exactly liquidating your investment account at that time. If the effective rate of discount is				
	Answer:	x				
	Make comment or override grad Incorrect Correct answer: 6.701611 Marks for this submiss					
7 🗹 Marks: 1	series of payments. You are give	ulated by the method of equated time.				
	Calculate X+Y					
	Answer:	X X				
	Make comment or override grad Incorrect					
	Correct answer: 23.3107 Marks for this submiss	sion: 0/1.				
8 🖢 Marks: 1	Jeff puts 100 into a fund that pays an effective annual rate of discount of 22% for the first two years and a force of interest of rate $\delta_t = 2t/(t^2 + 8)$, $2 \le t \le 4$, for the next two years. At the end of four years, the amount in Jeff's account is the same as what it would have been if he had put 100 into an account paying interest at the nominal rate of i per annum compounded quarterly for four years. Calculate i .					
	Answer:	x				
	Make comment or override grad Incorrect Correct answer: 0.308862 Marks for this submiss					
9 🕏 Marks: 1	At time $t = 0$, John deposit 2,00 compounded monthly. At time t	0 into a fund which credits interest at a nominal interest rate of 13% compounded semiannually. At the same time, he deposits P into a different fund which credits interest at a nominal discount rate of 5% = 15, the amount in each fund are equal. What is the annual effective interest rate earned on the total deposit, 2000+P, over the 15-year period?				
	Answer:					

			X		
Make comment or ove	erride grade				
Incorrect	0000				
Correct answer: 0.08	submission: 0/1.				
ridiks for this	3001113310111 0/ 11				
10 ፟	You are given a loan on which i	nterest is charged over 4-year period, as follows:			
Marks: 1	 an effective rate of disco a nominal rate of discour 	int of 6.1% for the first year; t of 6.0% compounded every 2 years for the second year; of 4.6% compounded semiannually for the third year; and			
	Calculate the annual effective r	ate of interest over the 4-year period			
	Answer:			Y	
	Make comment or override grad	e			
	Incorrect Correct answer: 0.059539				
	Marks for this submis	sion: 0/1.			
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